FIG. 1

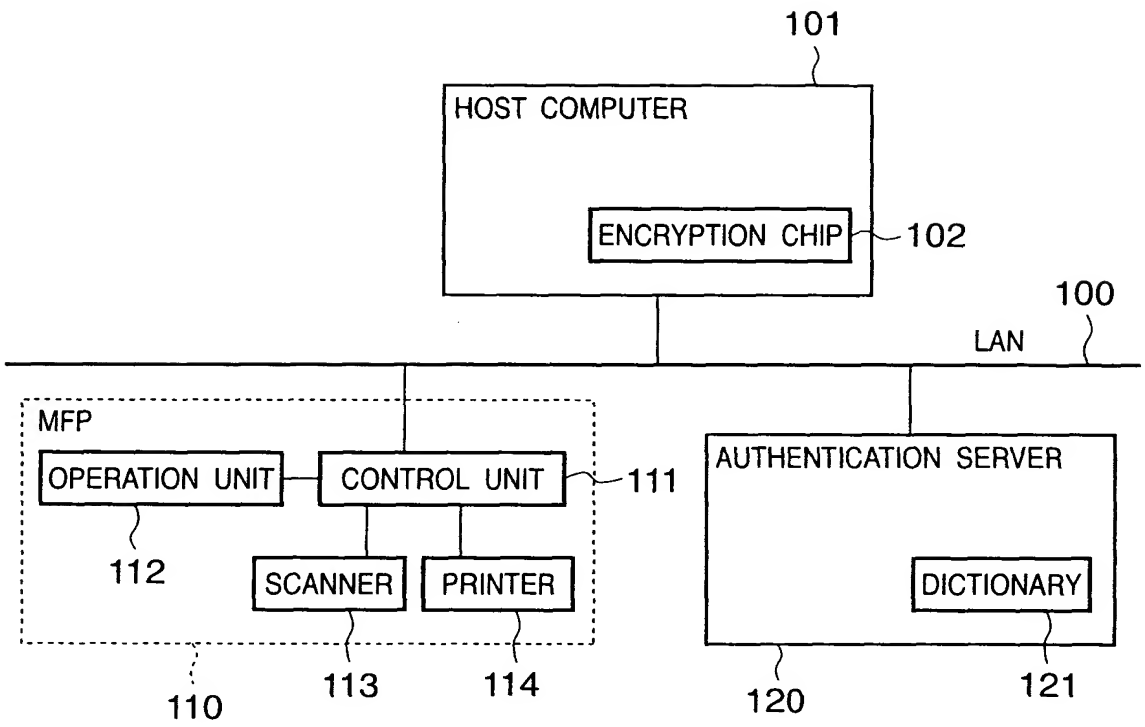

101
HOST COMPUTER
ENCRYPTION CHIP
102
100
LAN
MFP
OPERATION UNIT
CONTROL UNIT
111
112
SCANNER
PRINTER
110
113
114
AUTHENTICATION SERVER
DICTIONARY
120
121

FIG. 2

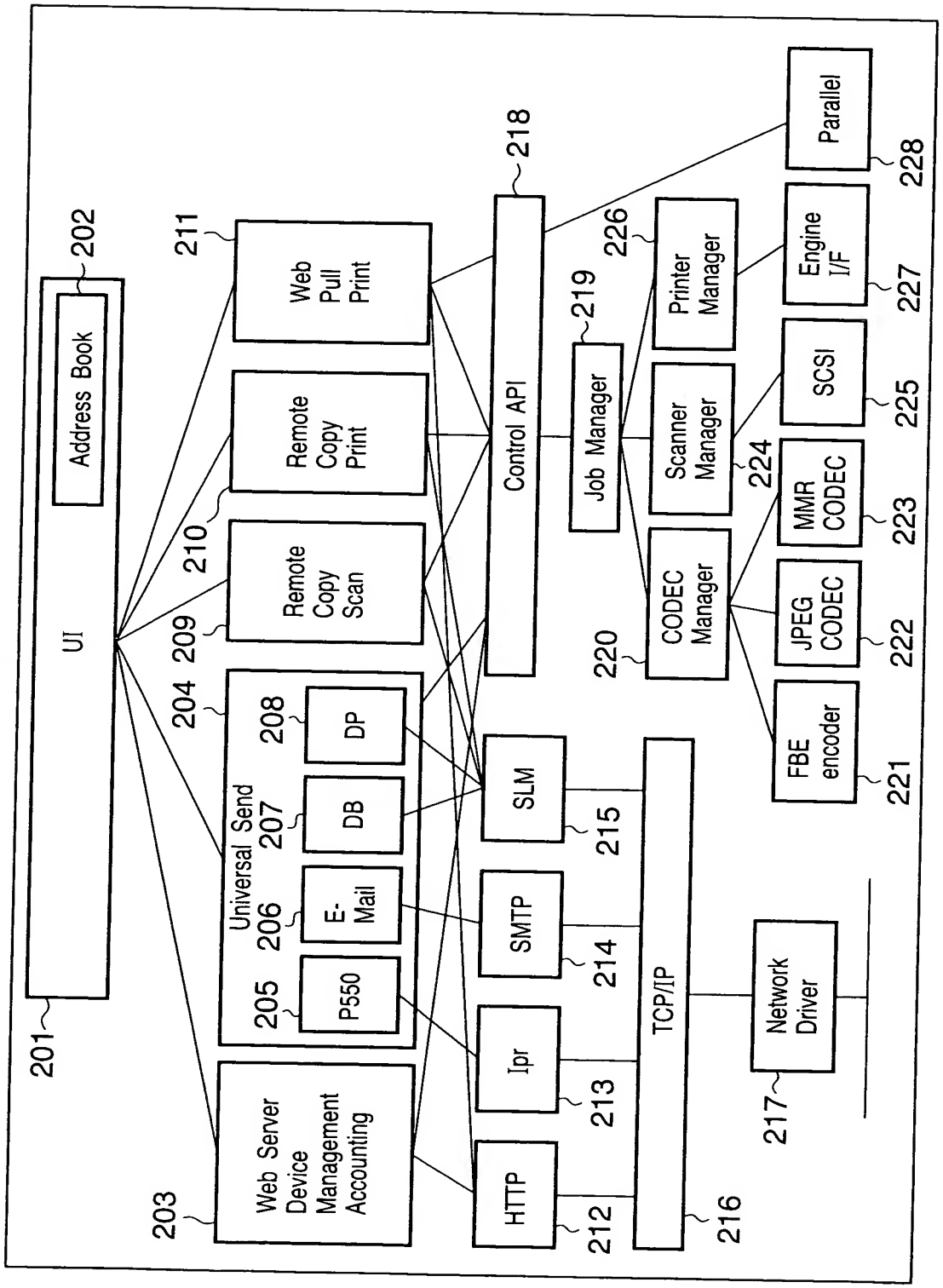

201
UI
202
Address Book
203
Web Server
Device Management
Accounting
204
Universal Send
205
P550
206
E-Mail
207
DB
208
DP
209
Remote Copy Scan
210
Remote Copy Print
211
Web Pull Print
212
HTTP
213
Ipr
214
SMTP
215
SLM
216
TCP/IP
217
Network Driver
218
Control API
219
Job Manager
220
CODEC Manager
221
FBE encoder
222
JPEG CODEC
223
MMR CODEC
224
Scanner Manager
225
SCSI
226
Printer Manager
227
Engine I/F
228
Parallel

FIG. 3

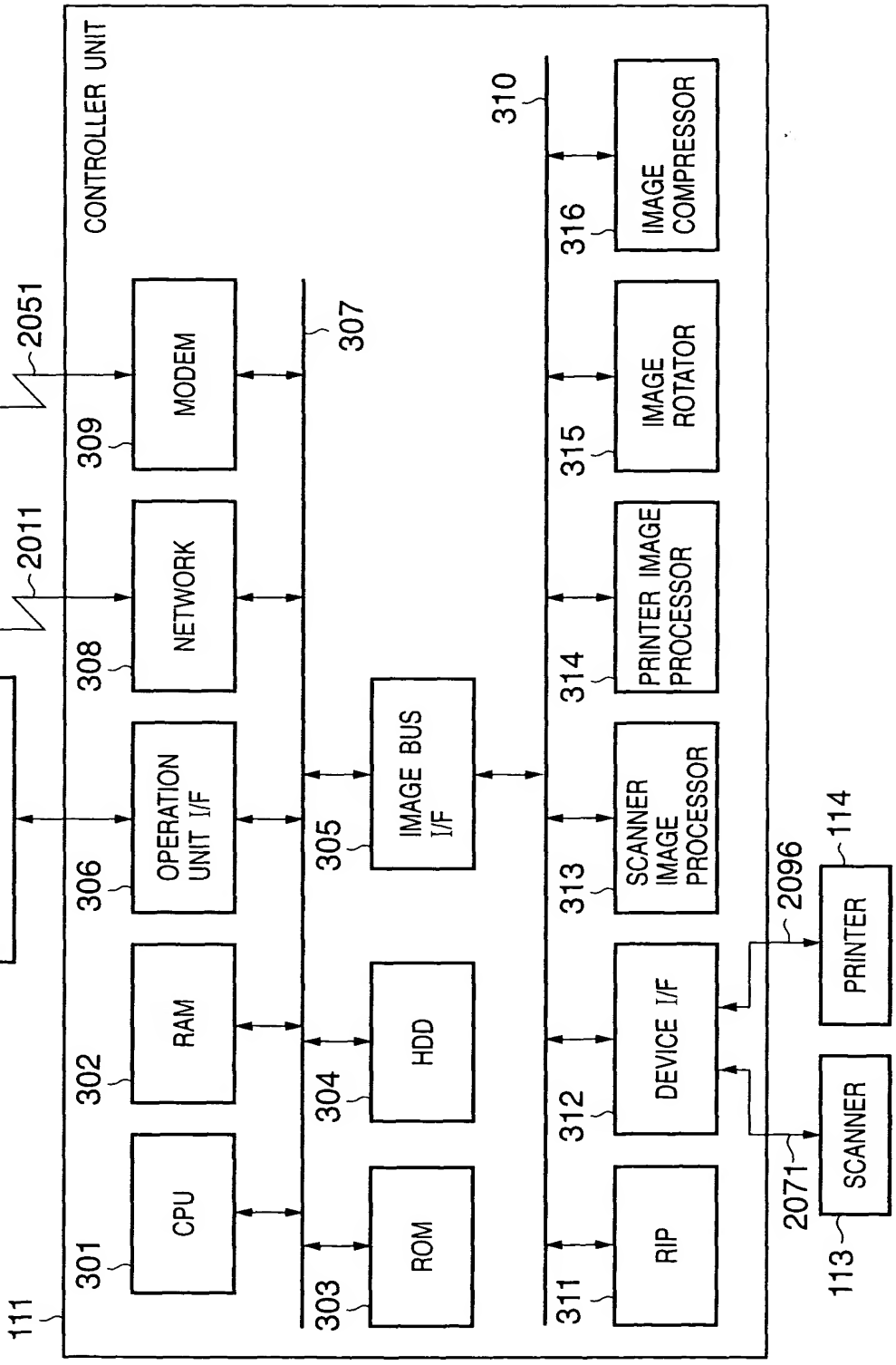

CONTROLLER UNIT
111
CPU
301
RAM
302
ROM
303
HDD
304
IMAGE BUS I/F
305
OPERATION UNIT I/F
306
NETWORK
308
MODEM
309
307
310
IMAGE COMPRESSOR
316
IMAGE ROTATOR
315
PRINTER IMAGE PROCESSOR
314
SCANNER IMAGE PROCESSOR
313
DEVICE I/F
312
RIP
311
OPERATION UNIT
112
LAN
2011
WAN
2051
2096
PRINTER
114
SCANNER
2071
113

FIG. 4

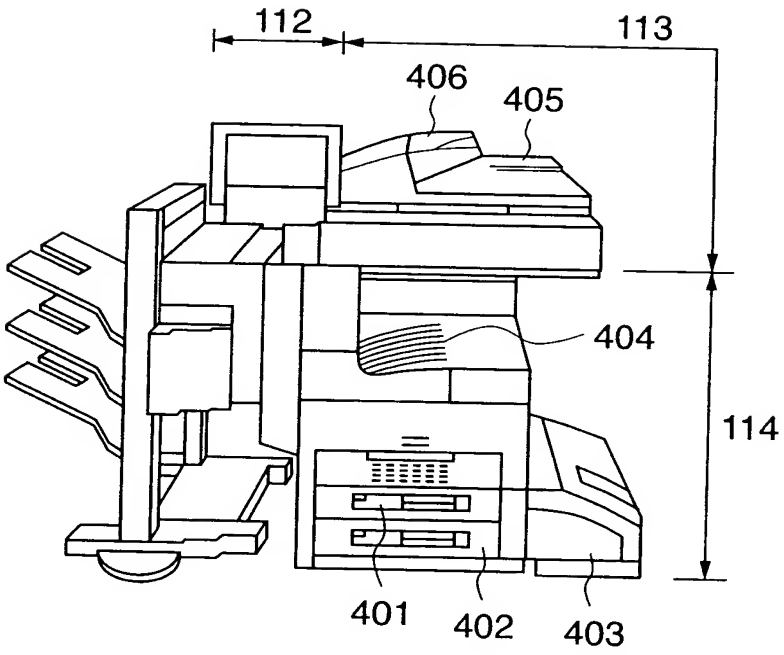


FIG. 5

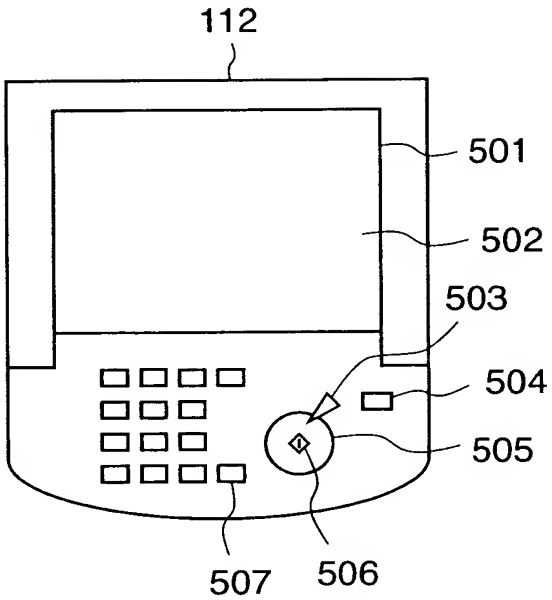


FIG. 6

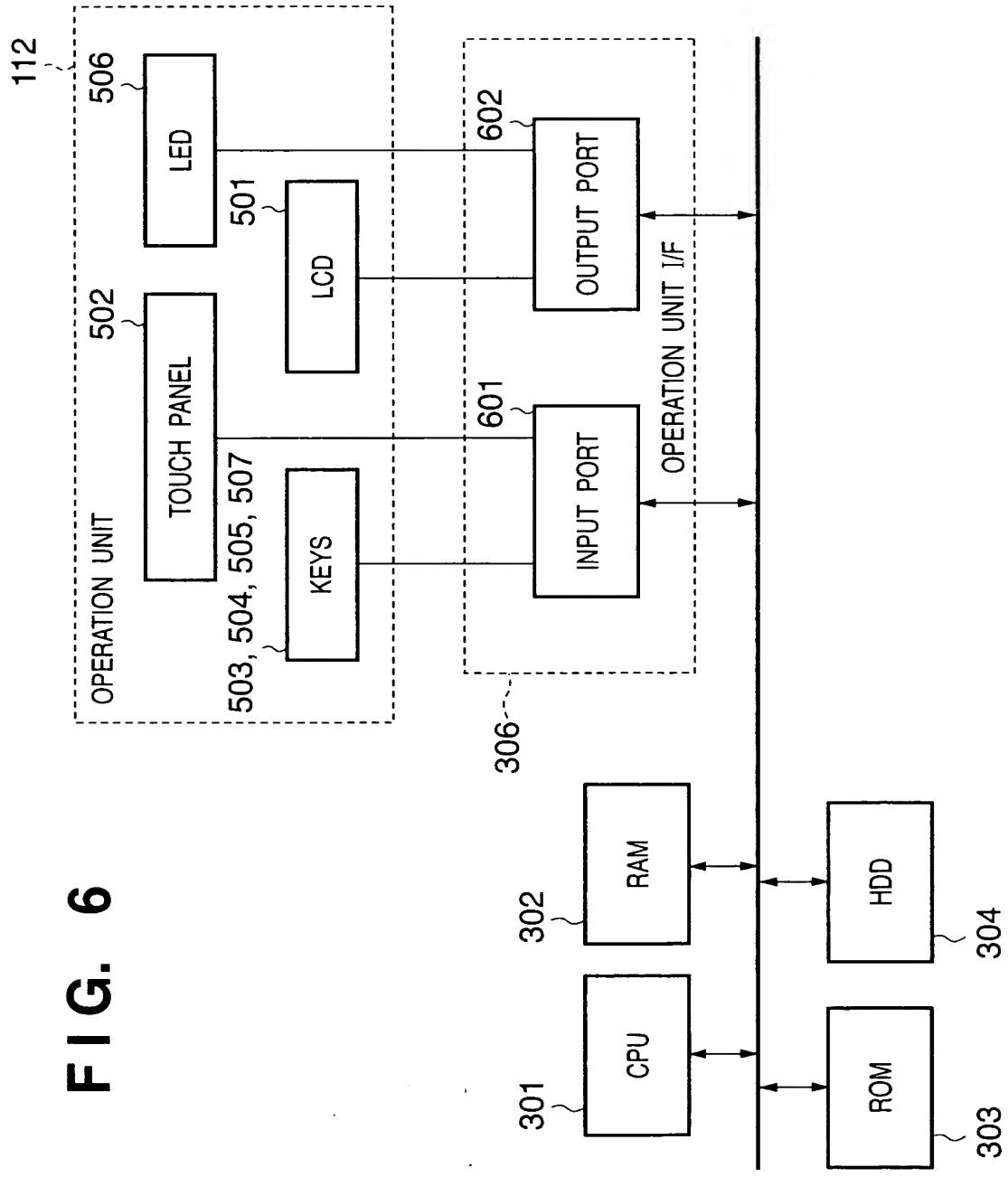

112
OPERATION UNIT
506
LED
501
LCD
502
TOUCH PANEL
503, 504, 505, 507
KEYS
602
OUTPUT PORT
601
INPUT PORT
OPERATION UNIT I/F
306
302
RAM
301
CPU
HDD
304
ROM
303

FIG. 7

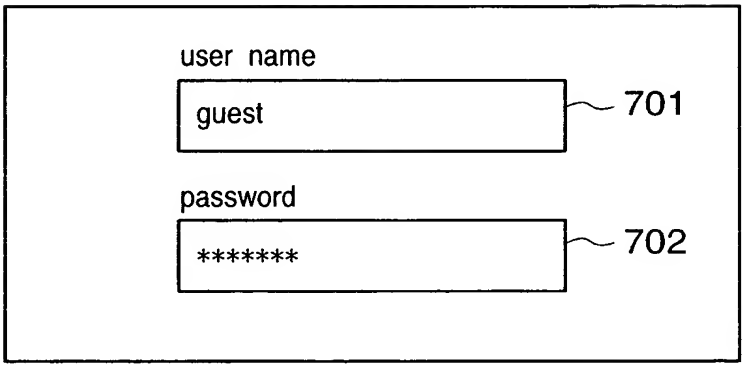


FIG. 8

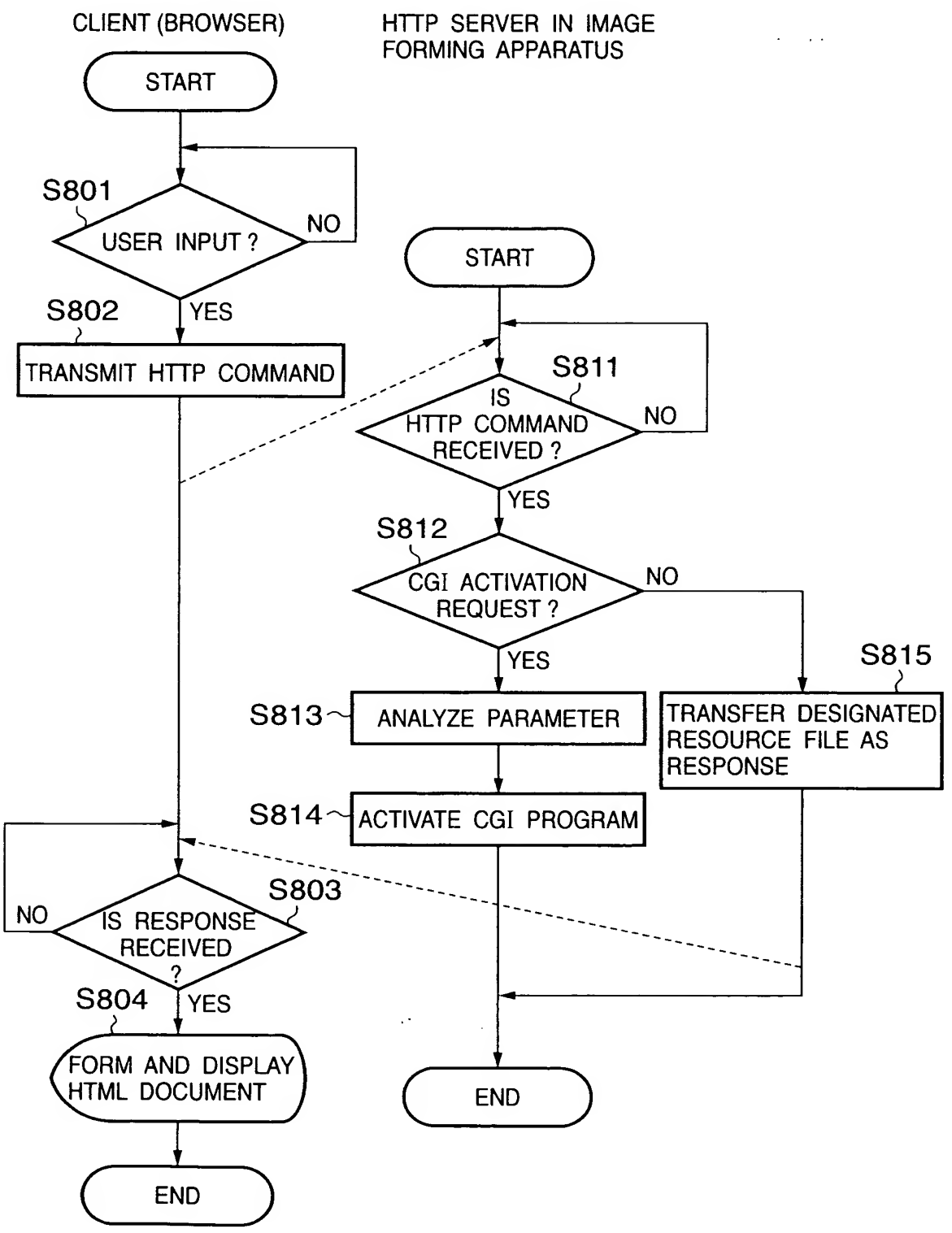

CLIENT (BROWSER)
HTTP SERVER IN IMAGE FORMING APPARATUS
START
S801
USER INPUT ?
NO
YES
S802
TRANSMIT HTTP COMMAND
START
S811
IS HTTP COMMAND RECEIVED ?
NO
YES
S812
CGI ACTIVATION REQUEST ?
NO
YES
S815
S813
ANALYZE PARAMETER
TRANSFER DESIGNATED RESOURCE FILE AS RESPONSE
S814
ACTIVATE CGI PROGRAM
S803
NO
IS RESPONSE RECEIVED ?
S804
YES
FORM AND DISPLAY HTML DOCUMENT
END
END

FIG. 9

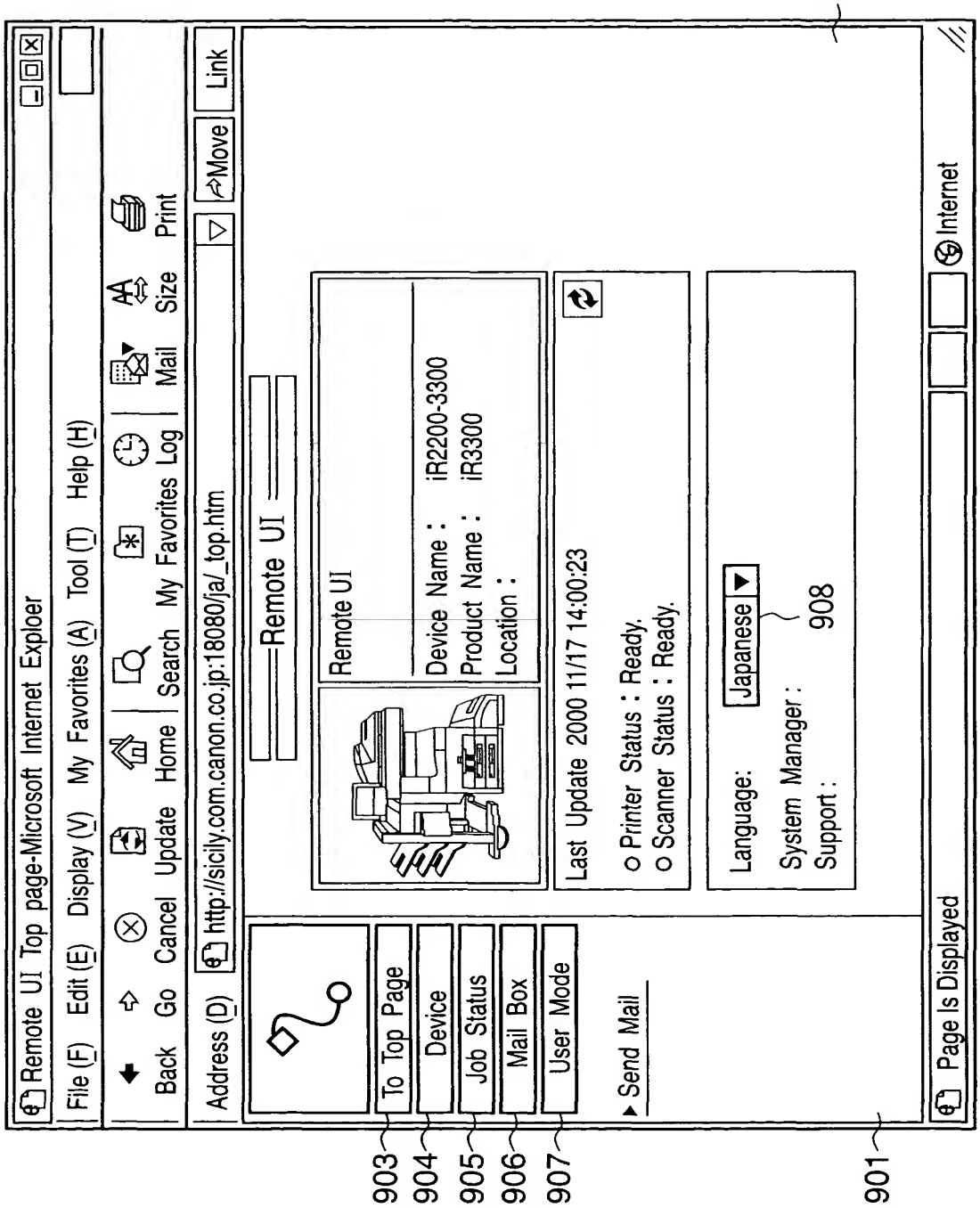

Remote UI Top page-Microsoft Internet Exploer
File (F) Edit (E) Display (V) My Favorites (A) Tool (T) Help (H)
Back Go Cancel Update Home Search My Favorites Log Mail Size Print
Address (D) http://sicily.com.canon.co.jp:18080/ja/_top.htm
Move Link
Remote UI
To Top Page
Device
Job Status
Mail Box
User Mode
Send Mail
Remote UI
Device Name : iR2200-3300
Product Name : iR3300
Location :
Last Update 2000 11/17 14:00:23
o Printer Status : Ready.
o Scanner Status : Ready.
Language: Japanese
System Manager :
Support :
908
Page Is Displayed
Internet
901
902
903
904
905
906
907

FIG. 10

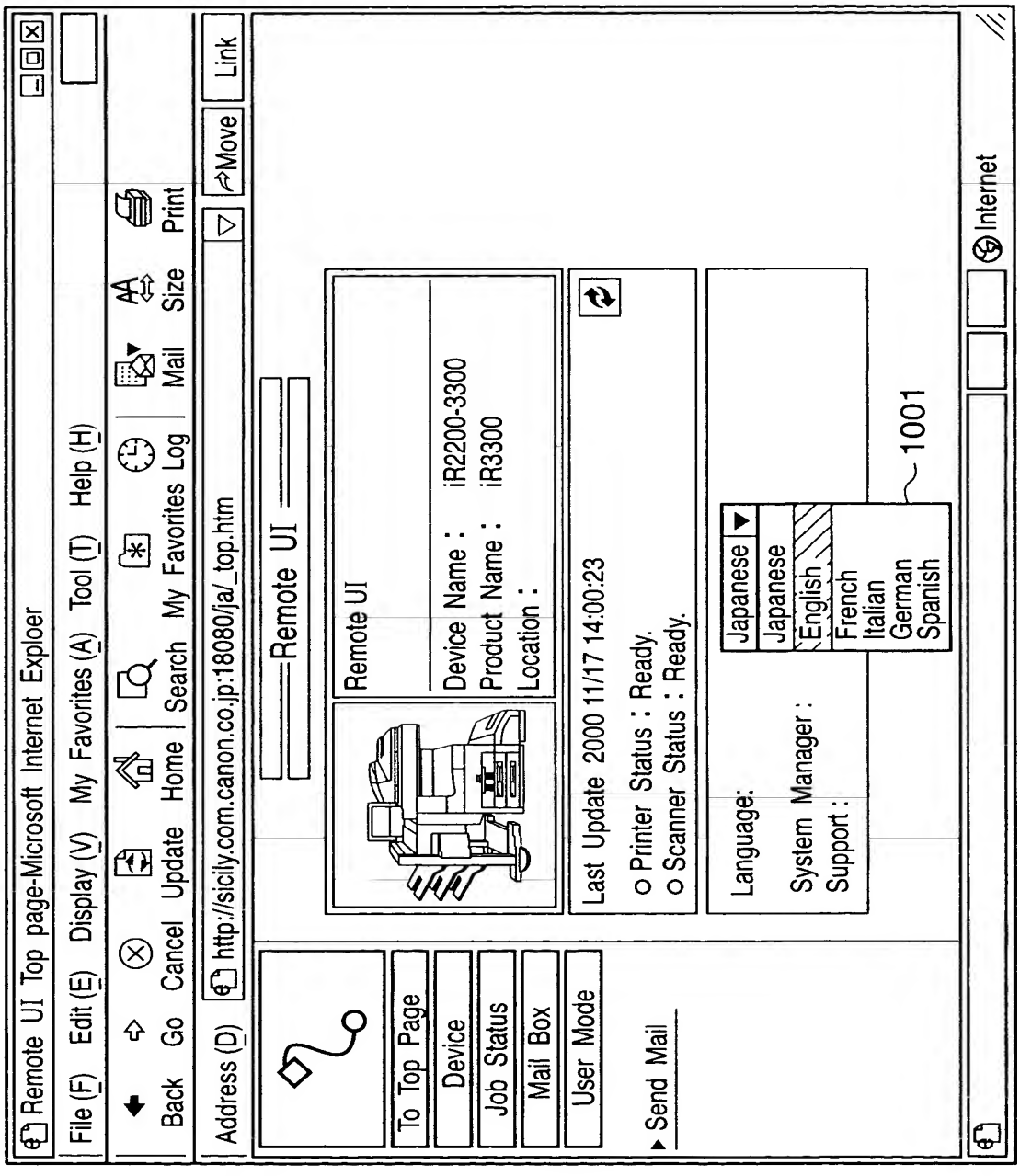

Remote UI Top page-Microsoft Internet Exploer
File (F) Edit (E) Display (V) My Favorites (A) Tool (T) Help (H)
Back Go Cancel Update Home Search My Favorites Log Mail Size Print
Address (D) http://sicily.com.canon.co.jp:18080/ja/_top.htm
Move Link
Remote UI
To Top Page
Device
Job Status
Mail Box
User Mode
Send Mail
Remote UI
Device Name : iR2200-3300
Product Name : iR3300
Location :
Last Update 2000 11/17 14:00:23
o Printer Status : Ready.
o Scanner Status : Ready.
Language:
System Manager :
Support :
Japanese
Japanese
English
French
Italian
German
Spanish
1001
Internet

FIG. 11

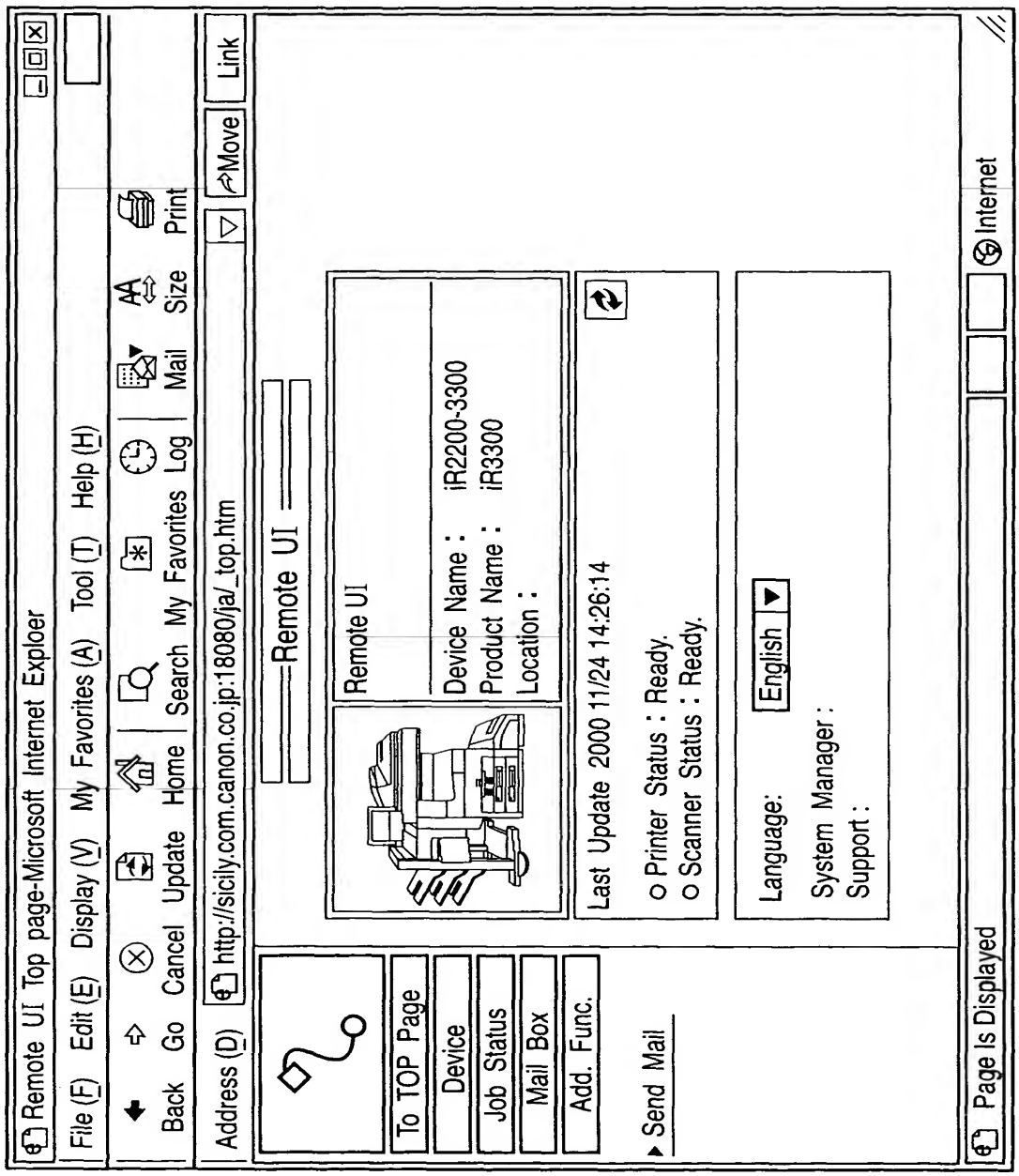

Remote UI Top page-Microsoft Internet Exploer
File (F) Edit (E) Display (V) My Favorites (A) Tool (T) Help (H)
Back Go Cancel Update Home Search My Favorites Log Mail Size Print
Address (D) http://sicily.com.canon.co.jp:18080/ja/_top.htm
Move Link
Remote UI
To TOP Page
Device
Job Status
Mail Box
Add. Func.
Send Mail
Remote UI
Device Name : iR2200-3300
Product Name : iR3300
Location :
Last Update 2000 11/24 14:26:14
o Printer Status : Ready.
o Scanner Status : Ready.
Language: English
System Manager :
Support :
Page Is Displayed
Internet

FIG. 12

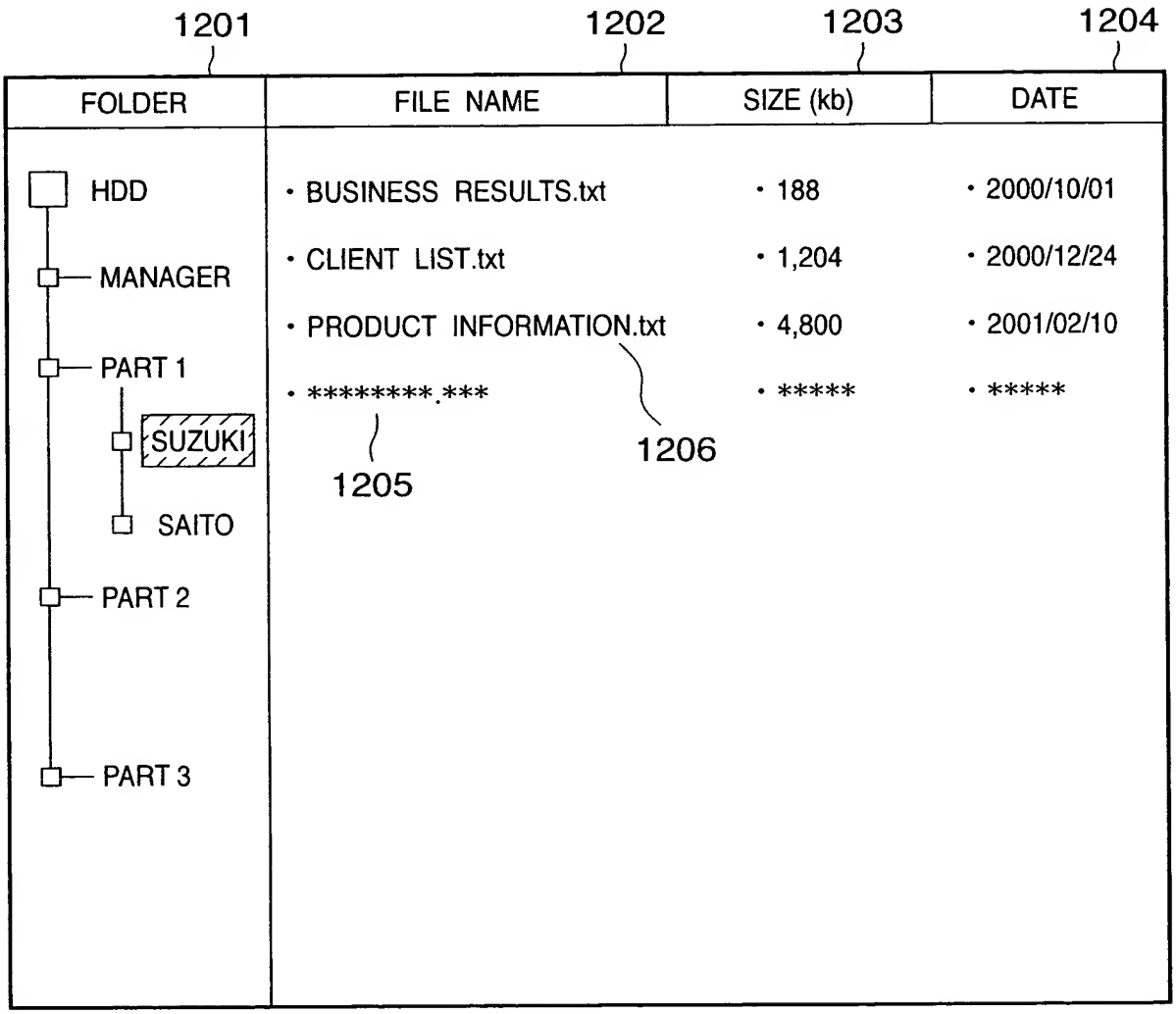

1201
1202
1203
1204
FOLDER
FILE NAME
SIZE (kb)
DATE
HDD
MANAGER
PART 1
SUZUKI
SAITO
PART 2
PART 3
• BUSINESS RESULTS.txt
• 188
• 2000/10/01
• CLIENT LIST.txt
• 1,204
• 2000/12/24
• PRODUCT INFORMATION.txt
• 4,800
• 2001/02/10
• ********.***
• *****
• *****
1205
1206

FIG. 13

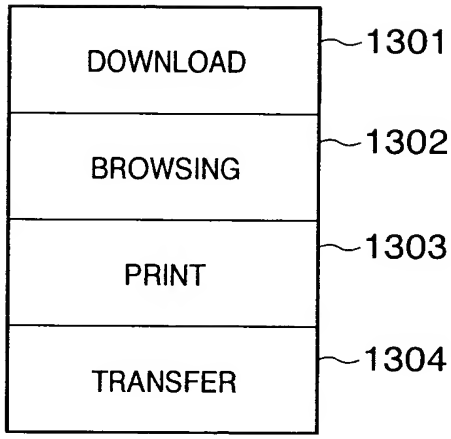


FIG. 14

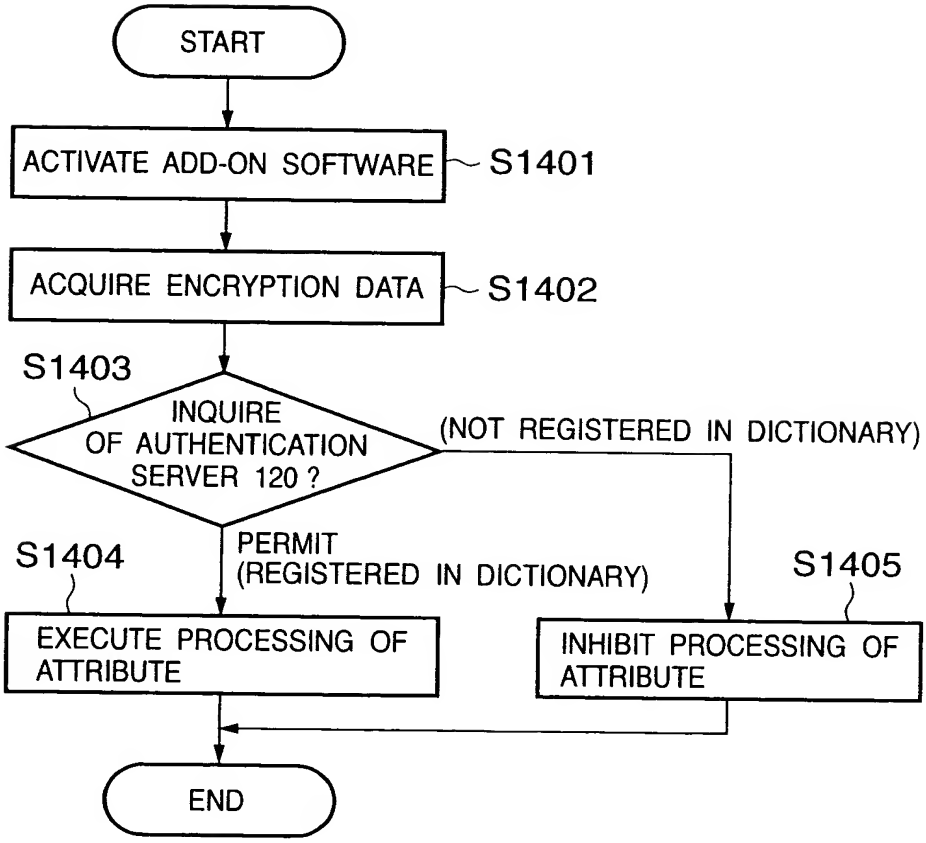
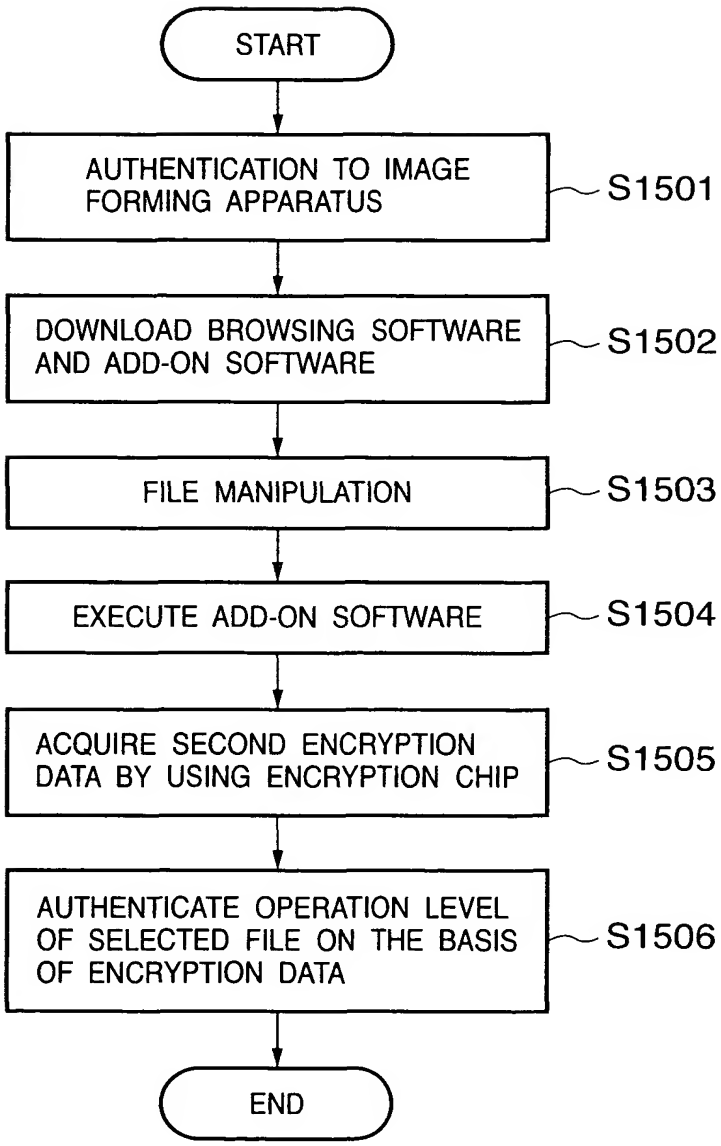

START
ACTIVATE ADD-ON SOFTWARE
S1401
ACQUIRE ENCRYPTION DATA
S1402
S1403
INQUIRE OF AUTHENTICATION SERVER 120 ?
(NOT REGISTERED IN DICTIONARY)
PERMIT (REGISTERED IN DICTIONARY)
S1404
S1405
EXECUTE PROCESSING OF ATTRIBUTE
INHIBIT PROCESSING OF ATTRIBUTE
END

FIG. 15


START
AUTHENTICATION TO IMAGE FORMING APPARATUS
S1501
DOWNLOAD BROWSING SOFTWARE AND ADD-ON SOFTWARE
S1502
FILE MANIPULATION
S1503
EXECUTE ADD-ON SOFTWARE
S1504
ACQUIRE SECOND ENCRYPTION DATA BY USING ENCRYPTION CHIP
S1505
AUTHENTICATE OPERATION LEVEL OF SELECTED FILE ON THE BASIS OF ENCRYPTION DATA
S1506
END